

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

Trade name **Amidosulfonic acid**

Stock number: A18836

CAS Number:

5329-14-6

EC number:

226-218-8

Index number:

016-026-00-0

**1.2 Relevant identified uses of the substance or mixture and uses advised against.**

Identified use: SU24 Scientific research and development

**1.3 Details of the supplier of the safety data sheet**

Manufacturer/Supplier:

Thermo Fisher (Kandel) GmbH

Zeppelinstr. 7b

76185 Karlsruhe / Germany

Tel: +49 (0) 721 84007 280

Fax: +49 (0) 721 84007 300

Email: tech@alfa.com

www.alfa.com

Informing department: Product safety Tel + +049 (0) 7275 988687-0

**1.4 Emergency telephone number:**

Carechem 24: +44 (0) 1235 239 670 (Multi-language emergency number)

Poison Information Center Mainz

www.giftinfo.uni-mainz.de Telephone: +49(0)6131/19240

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

Other hazards that do not result in classification No information known.

**2.2 Label elements**

Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS07

Signal word Warning

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash thoroughly after handling.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P362 Take off contaminated clothing and wash before reuse.

P321 Specific treatment (see on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of water.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other hazards**

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

CAS# Designation:

5329-14-6 Amidosulfonic acid

Concentration: ≤100%

Identification number(s):

EC number: 226-218-8

Index number: 016-026-00-0

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**After inhalation**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

Seek immediate medical advice.

**After skin contact**

Instantly wash with water and soap and rinse thoroughly.

Seek immediate medical advice.

**After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.

**After swallowing** Seek medical treatment.

**4.2 Most important symptoms and effects, both acute and delayed**

Causes skin irritation.

Causes serious eye irritation.

**4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing agents** Product is not flammable. Use fire-fighting measures that suit the surrounding fire.

#### 5.2 Special hazards arising from the substance or mixture

If this product is involved in a fire, the following can be released:

Sulphur oxides (SO<sub>x</sub>)

Nitrogen oxides (NO<sub>x</sub>)

#### 5.3 Advice for firefighters

##### Protective equipment:

Wear self-contained breathing apparatus.

Wear full protective suit.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

**6.2 Environmental precautions:** Do not allow product to reach sewage system or water bodies.

**6.3 Methods and material for containment and cleaning up:** Collect mechanically.

**Prevention of secondary hazards:** No special measures required.

#### 6.4 Reference to other sections

See Section 7 for information on safe handling

See section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Keep containers tightly sealed.

Store in cool, dry place in tightly closed containers.

Ensure good ventilation/exhaustion at the workplace.

**Information about protection against explosions and fires:** The product is not flammable

#### 7.2 Conditions for safe storage, including any incompatibilities

##### Storage

**Requirements to be met by storerooms and containers:** No special requirements.

##### Information about storage in one common storage facility:

Store away from strong bases.

Store away from oxidising agents.

##### Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

**7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

#### 8.1 Control parameters

##### Components with critical values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Additional information:** No data

#### 8.2 Exposure controls

##### Personal protective equipment

##### General protective and hygienic measures

The usual precautionary measures should be adhered to in handling the chemicals.

Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Maintain an ergonomically appropriate working environment.

**Breathing equipment:** Use breathing protection with high concentrations.

##### Recommended filter device for short term use:

Use a respirator with type P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.

##### Protection of hands:

Check protective gloves prior to each use for their proper condition.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

**Material of gloves** Nitrile rubber, NBR

**Penetration time of glove material (in minutes)** Not determined

##### Eye protection:

Safety glasses

Face protection

**Body protection:** Protective work clothing.

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

##### General Information

##### Appearance:

**Form:** Crystalline powder

**Odour:** Odourless

**Odour threshold:** Not determined.

**pH-value (10 g/l) at 25 °C:** 1,2

##### Change in condition

**Melting point/Melting range:** ca 205 °C (dec)

**Boiling point/Boiling range:** Not determined

**Sublimation temperature / start:** Not determined

**Inflammability (solid, gaseous)** Not determined.

**Ignition temperature:** Not determined

**Decomposition temperature:** Not determined

**Self-inflammability:** Not determined.

**Danger of explosion:** Not determined.

##### Critical values for explosion:

**Lower:** Not determined

**Upper:** Not determined

**Steam pressure:** Not applicable.

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Density at 20 °C 2,12 g/cm<sup>3</sup>  
 Relative density Not determined.  
 Vapour density Not applicable.  
 Evaporation rate Not applicable.  
 Solubility in / Miscibility with  
 Water at 20 °C: 146,8 g/l  
 Partition coefficient (n-octanol/water): Not determined.  
 Viscosity:  
 dynamic: Not applicable.  
 kinematic: Not applicable.  
 9.2 Other information No further relevant information available.

### SECTION 10: Stability and reactivity

10.1 Reactivity No information known.  
 10.2 Chemical stability Stable under recommended storage conditions.  
 Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.  
 10.3 Possibility of hazardous reactions Reacts with strong oxidising agents  
 10.4 Conditions to avoid No further relevant information available.  
 10.5 Incompatible materials:  
 Bases  
 Oxidising agents  
 10.6 Hazardous decomposition products:  
 Sulphur oxides (SO<sub>x</sub>)  
 Nitrogen oxides (NO<sub>x</sub>)

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Acute toxicity: No effects known.

#### LD/LC50 values that are relevant for classification:

Oral	LD50	3160 mg/kg (rat)
Irritation of skin	severe	500 mg/24H (rabbit)
Irritation of eyes	severe	250 µg/24H (rabbit)

Skin irritation or corrosion: Causes skin irritation.  
 Eye irritation or corrosion: Causes serious eye irritation.  
 Sensitization: No sensitizing effect known.  
 Germ cell mutagenicity: No effects known.  
 Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.  
 Reproductive toxicity: No effects known.  
 Specific target organ system toxicity - repeated exposure: No effects known.  
 Specific target organ system toxicity - single exposure: No effects known.  
 Aspiration hazard: No effects known.  
 Subacute to chronic toxicity: No effects known.  
 Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

### SECTION 12: Ecological information

12.1 Toxicity  
 Aquatic toxicity: No further relevant information available.  
 12.2 Persistence and degradability No further relevant information available.  
 12.3 Bioaccumulative potential No further relevant information available.  
 12.4 Mobility in soil No further relevant information available.  
 Ecotoxicological effects:  
 Remark: Harmful to aquatic organisms  
 Additional ecological information:  
 General notes:  
 Water hazard class 1 (Assessment by list): slightly hazardous for water.  
 Do not allow undiluted product or large quantities to reach ground water, water course or sewage system.  
 May cause long lasting harmful effects to aquatic life.  
 Avoid transfer into the environment.  
 Harmful to aquatic organisms  
 Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.  
 12.5 Results of PBT and vPvB assessment  
 PBT: Not applicable.  
 vPvB: Not applicable.  
 12.6 Other adverse effects No further relevant information available.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods


##### Recommendation

Hand over to disposers of hazardous waste.  
 Must be specially treated under adherence to official regulations.  
 Consult state, local or national regulations for proper disposal.

##### Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.



### SECTION 14: Transport information

UN-Number ADR, IMDG, IATA	UN2967
14.2 UN proper shipping name ADR IMDG, IATA	2967 SULPHAMIC ACID SULPHAMIC ACID
14.3 Transport hazard class(es) ADR	
	
Class	8 (C2) Corrosive substances.

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<b>Label IMDG</b> 	8
<b>Class Label IATA</b> 	8. 8
<b>Class Label</b>	8 Corrosive substances. 8
<b>Packing group ADR, IMDG, IATA</b>	III
<b>14.5 Environmental hazards:</b>	Not applicable.
<b>14.6 Special precautions for user</b> Kemler Number: EMS Number: Segregation groups	Warning: Corrosive substances. 80 F-A,S-B Acids
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>Transport/Additional information:</b>	
<b>ADR</b> Excepted quantities (EQ): Limited quantities (LQ) Transport category Tunnel restriction code	E1 5 kg 3 E
<b>UN "Model Regulation":</b>	UN2967, SULPHAMIC ACID, 8, III

### SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
Australian Inventory of Chemical Substances Substance is listed.

**Standard for the Uniform Scheduling of Medicines and Poisons**

5329-14-6 Amidosulfonic acid

S5, S6

#### National regulations

##### Information about limitation of use:

Employment restrictions concerning young persons must be observed.

For use only by technically qualified individuals.

**Classification according to VbF:** Not applicable

**Water hazard class:** Water hazard class 1 (Assessment by list): slightly hazardous for water.

#### Other regulations, limitations and prohibitive regulations

**ELINCS (European List of Notified Chemical Substances)** Substance is not listed.

**Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006.** Substance is not listed.

**The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.**

Substance is not listed.

**Annex XIV of the REACH Regulations (requiring Authorisation for use)** Substance is not listed.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

**Department issuing SDS:** Global Marketing Department

#### Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

vPvB: very Persistent and very Bioaccumulative

ACGIH: American Conference of Governmental Industrial Hygienists (USA)

OSHA: Occupational Safety and Health Administration (USA)

NTP: National Toxicology Program (USA)

IARC: International Agency for Research on Cancer

EPA: Environmental Protection Agency (USA)

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3